

*Sub A1*

100-107-60

## WHAT IS CLAIMED IS:

- 1        1. A pre-cast polyacrylamide slab gel for use in slab gel electrophoresis,  
2 said pre-cast gel comprising:
  - 3              a pair of chemically inert, transparent plates with inner surfaces coated with a  
4              nonionic amphiphilic polymer, and  
5              a polyacrylamide gel cast between said plates.
- 1        2. A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
2 which said nonionic amphiphilic polymer is polyvinyl alcohol.
- 1        3. A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
2 which said nonionic amphiphilic polymer is polyethylene glycol.
- 1        4. A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
2 which said plates are glass.
- 1        5. A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
2 which said plates are plastic.
- 1        6. A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
2 which said plates are polystyrene-acrylonitrile blend.
- 1        7. A pre-cast polyacrylamide slab gel in accordance with claim 1 further  
2 comprising a coating of polyvinylidene chloride between said plate and said coating of  
3 nonionic amphiphilic polymer.